

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/593,793A

DATE: 11/27/2000

TIME: 22:54:27

Input Set : A:\Pto.amc

Output Set: N:\CRF3\11272000\I593793A.raw

P.S

```

3 <110> APPLICANT: Xu, Jiangchun
4   Dillon, Davin C.
5   Mitcham, Jennifer L.
6   Harlocker, Susan L.
7   Jiang, Yuqui
8   Reed, Steven G.
9   Kalos, Michael D.
10  Fanger, Gary R.
11  Retter, Marc W.
12  Stolk, John A.
13  Day, Craig H.
14  Vedvick, Thomas S.
15  Carter, Darrick
16  Li, Samuel
17  Wang, Aijun
18  Skeiky, Yasir A.W.
19  Helper, William
21 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
22   DIAGNOSIS OF PROSTATE CANCER
24 <130> FILE REFERENCE: 210121.42715C15
C--> 26 <140> CURRENT APPLICATION NUMBER: US/09/593,793A
C--> 27 <141> CURRENT FILING DATE: 2000-06-13
29 <160> NUMBER OF SEQ ID NOS: 814
31 <170> SOFTWARE: FastSEQ for Windows Version 3.0
33 <210> SEQ ID NO: 1
34 <211> LENGTH: 814
35 <212> TYPE: DNA
36 <213> ORGANISM: Homo sapien
38 <220> FEATURE:
39 <221> NAME/KEY: misc_feature
40 <222> LOCATION: (1)...(814)
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45   atcaaatctg aggggtgtct ggaggacttc aatacacctc ccccatagt gaatcagctt      120
46   ccaggggggc cagtccctct ccttaactca tccccatccc atgccaaagg aagaccctcc      180
47   ctccctggct cacagccttc tctaggcttc ccagtgcctc caggacagag tgggttatgt      240
48   ttccagctcc atccctgtct tgagtgctct gtgcgttggt cctccagctt ctgctcagtg      300
49   ctccatggac agtgtccagc acatgtcact ctccactctc tcagtgtaga tccactagtt      360
50   cttagagcggc cgcaccgcgc gtggagctcc agcttttgtt ccttttagtg aggggttaatt      420
51   gcgcgcttgg cgtaatcatg gtcataactg tttcctgtgt gaaattgtta tccgctcaca      480
52   attccacaca acatacgagc cggagacata aagtgtaaag cctgggggtgc ctaatgagtg      540
W--> 53   anctaaactca cattaattgc gttgcgctca ctgnccgctt tccagtcngg aaaactgtcg      600
W--> 54   tgccagctgc attaatgaat cggccaacgc nccgggaaaa gcggtttgcg ttttgggggc      660
W--> 55   tcttcgcgtt ctcgctcact nantcctgcg ctgcgttntt cggctgcggg gaacgggtatc      720
W--> 56   actcctcaaa ggnggtatta cggttatccn naaatcnggg gatacccnngg aaaaaanttt      780
W--> 57   aacaaaaggg cancaaaggg cngaaacgta aaaa                                814

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Input Set : A:\Pto.amc

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59 <210> SEQ ID NO: 2
60 <211> LENGTH: 816
61 <212> TYPE: DNA
62 <213> ORGANISM: Homo sapien
63 <220> FEATURE:
64 <221> NAME/KEY: misc_feature
65 <222> LOCATION: (1)...(816)
66 <223> OTHER INFORMATION: n = A,T,C or G
67 <400> SEQUENCE: 2
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71 ttcatggctg ttggagcaat agaaccocag ttctacyagc tgctgateca aggacttga 120
72 cttaaagtctg atgaacttcc caatcagatg agcatggatg attggccaga aatgaagaag 180
73 aagtttgacg atgtatttgc aaagaagacg aaggcagagt ggtgtcaaat ctttgacggc 240
74 acagatgcct gtgtgactcc ggttctgact tttagggagg ttgttcatca tgatcacaac 300
75 aaggaaacggg gctcgtttat caccagttag gacgagacg tagcccccgc cctgcacct 360
76 ctgctgttaa acacccacgc catcccttct ttcaaaaggc atccactagt tctagaagcg 420
77 gccgccaccg cgggtggagt ccagcttttg ttccctttag tgagggttaa ttgcgcgctt 480
78 ggcgtaatca tggctatagc tgtttcctgt gtgaaattgt tatccgctca caattcccc 540
W--> 79 aacatacgag ccggaacata aagtgttaag cctgggtgac ctaatgantg agctaaactn 600
W--> 80 cattaattgc gttgcgctca ctgcccgctt tccagtcggg aaaactgtcg tgccactgcn 660
W--> 81 ttantgaatc ngcccccccc cgggaaaagg cgttgccttt ttgggcctct tccgctttcc 720
W--> 82 tcgctcattg atccctngcnc ccggtcttcg gctgcggnga acggttact cctcaaggc 780
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86 <211> LENGTH: 773
87 <212> TYPE: DNA
88 <213> ORGANISM: Homo sapien
89 <220> FEATURE:
90 <221> NAME/KEY: misc_feature
91 <222> LOCATION: (1)...(773)
92 <223> OTHER INFORMATION: n = A,T,C or G
93 <400> SEQUENCE: 3
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97 tccgtctcct cactggtgat aaacgagccc cgttccttgt tgtgatcatg atgaacaacc 120
98 tccctaaaag tcagaaacgg agtcacacag gcactctgtc cgtcaaaagt ttgacaccac 180
99 tctgccttcg tcttctttgc aaatacatct gcaaaactct tcttcatttc tggccaatca 240
W--> 100 tccatgctca tctgattggg aagttcatca gacttttagc canntccttt gatcagcagc 300
101 tctagaactc ggggttctat tgcctcaaca gccatgaatt ccccatctgc tgtcctgtaa 360
102 gtcgtataga aaggtgctcc accatccaac atgttctgtc ctgcaggggg ggcccggtaa 420
W--> 103 ccaattcgcc ctatantgag tcgtattacg cgcgctcact ggccgctggt ttacaacgta 480
104 gtgactggga aaacccctgg cgttaccac ttaatcgctc tgcagcacat cccctttctg 540
W--> 105 ccagctgggc gtaatancca aaaggccccc accgatcgcc ctccaacag ttgcgcacct 600
W--> 106 gaatgggnaa atgggacccc cctgttaccg cgcattnaac ccccgcnagg tttngttgtt 660
W--> 107 acccccacnt nnaccgctta cactttgcca gcgccttanc gccgcctccc tttncccttt 720
W--> 108 cttcccttcc tttnccnccn ctttcccccg gggtttcccc cntcaaaccc cna 773
110 <210> SEQ ID NO: 4
111 <211> LENGTH: 828
112 <212> TYPE: DNA
113 <213> ORGANISM: Homo sapien

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115 <220> FEATURE:
116 <221> NAME/KEY: misc_feature
117 <222> LOCATION: (1)...(828)
118 <223> OTHER INFORMATION: n = A,T,C or G
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122 aatgggcaga cacaggtgta tgccaatggt tctgaaatgg gtataatttc gtccctctcct 120
123 tcggaacact ggcctgtctct gaagacttct cgtcagttt cagtggaggac acacacaaag 180
124 acgtgggtga ccatgtttgt tgtgggtgac agagatggga ggggtggggc ccacctgga 240
125 agagtggaca gtgacacaag gtggacactc tctacagatc actgaggata agctggagcc 300
W--> 126 acaatgcatg aggcacacac acagcaagga tgacnctgta aacatagccc acgctgtcct 360
W--> 127 gngggcactg ggaagcctan atnaggccgt gagcanaaag aaggggaggga tccactagtt 420
W--> 128 ctanageggc cgccaccgcy gtgganctcc ancttttgtt ccttttagtg agggttaatt 480
W--> 129 ggcgcgttgg cntaatcatg gtcatanctn ttctcgtgtt gaaattgtta tccgctcaca 540
W--> 130 attccacaca acatacganc cggaacata aantgtaaac ctggggtgcc taatgantga 600
W--> 131 ctaactcaca ttaattgcgt tgcgctcact gccgcgtttc caatonggaa acctgtcttg 660
W--> 132 ccncttgcct tnatgaatcn gccaaccccc ggggaaaagc gtttgcgttt tgggcgctct 720
W--> 133 tccgcttctt cnetcantta ntccctncnc tcggtcattc cggtcgengc aaaccggctc 780
W--> 134 accnctcca aagggggtat tccggtttcc ccnaatccgg gganance 828
136 <210> SEQ ID NO: 5
137 <211> LENGTH: 834
138 <212> TYPE: DNA
139 <213> ORGANISM: Homo sapien
141 <220> FEATURE:
142 <221> NAME/KEY: misc_feature
143 <222> LOCATION: (1)...(834)
144 <223> OTHER INFORMATION: n = A,T,C or G
146 <400> SEQUENCE: 5
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148 agttttaatt gcatccaaag tactaacaaa aactctagca atcaagaatg gcagcatggt 120
149 attttataac aatcaacacc tgtggctttt aaaatttggt tttcataaga taatttatac 180
150 tgaagtaaat ctagccatgc ttttaaaaaa tgctttaggt cactccaaagc ttggcaytta 240
151 acatttggca taaacaataa taaaacaatc acaatttaat aaataacaaa tacaacattg 300
152 taggccataa tcatatacag tataaggaaa aggtggtagt gttgagtaag cagttattag 360
153 aatagaatac cttggcctct atgcaaatat gtctagacac tttgattcac tcagccctga 420
154 cattcagttt tcaaaagtgg agacagggtc tacagtatca ttttacagtt tccaacacat 480
155 tgaacaacag tagaaatga tgagttgatt tttattaatg cattacatcc tcaagagtta 540
156 tcaccaaccc ctcaagttata aaaaatttcc aagttatatt agcatataaa cttggtgtgc 600
157 ttatttttaa ttagtgttaa atggattaag tgaagacaac aatggctccc taatgtgatt 660
W--> 158 gatattggtc atttttacca gcttctaaat ctnaactttc aggtctttga actggaacat 720
W--> 159 tgnatnacag tgttccanag ttncaaccta ctggaacatt acagtgtgct tgattcaaaa 780
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162 <210> SEQ ID NO: 6
163 <211> LENGTH: 818
164 <212> TYPE: DNA
165 <213> ORGANISM: Homo sapien
167 <220> FEATURE:
168 <221> NAME/KEY: misc_feature
169 <222> LOCATION: (1)...(818)

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170 <223> OTHER INFORMATION: n = A,T,C or G

172 <400> SEQUENCE: 6

| | | | | | | | |
|----------|-------------|-------------|-------------|-------------|------------|------------|-----|
| 173 | tttttttttt | tttttttttt | aagaccctca | tcaatagatg | gagacataca | gaaatagtca | 60 |
| 174 | aaccacatct | acaaaatgcc | agtatcaggc | ggcggtctcg | aagccaaagt | gatgtttgga | 120 |
| 175 | tgtaaaagtga | aataattagtt | ggcggatgaa | gcagatagtg | aggaaagtty | agccaataat | 180 |
| 176 | gacgtgaagt | ccgtggaagc | ctgtggtctac | aaaaaatgtt | gagccgtaga | tgccgtcggg | 240 |
| 177 | aatggtgaag | ggagactcga | agtactctga | ggcttctagg | aggttaaaat | agagacccag | 300 |
| 178 | taaaattgtg | ataagcagtg | cttgaattat | ttggtttcgg | ttgttttcta | ttagactatg | 360 |
| 179 | gtgagctcag | gtgattgata | ctcctgatgc | gagtaatacg | gatgtgttta | ggagtgggac | 420 |
| 180 | ttctaggggg | tttaagcggg | tgatgcctgt | tgggggccag | tgccctccta | gttggtgggt | 480 |
| 181 | aggggctagg | ctggagtggg | aaaaggtcca | gaaaaatcct | gcgaagaaaa | aaacttctga | 540 |
| 182 | ggtaataaat | aggattatcc | cgtatcgaa | gcctttttgg | acaggtgttg | tgtgttgccc | 600 |
| 183 | ttggtatgtg | ctttctcgtg | ttacatcgcg | ccatcattgg | tatatgttta | gtgtgttggg | 660 |
| W--> 184 | ttantanggc | ctantatgaa | gaacttttgg | antggaaatta | aatcaatngc | ttggccggaa | 720 |
| W--> 185 | gtcattanga | nggctnaaaa | ggccctgtta | ngggtctggg | ctnggtttta | cccnaccat | 780 |
| W--> 186 | ggaatncccc | ccccggacna | ntgnatccct | attcttaa | | | 818 |

188 <210> SEQ ID NO: 7

189 <211> LENGTH: 817

190 <212> TYPE: DNA

191 <213> ORGANISM: Homo sapien

193 <220> FEATURE:

194 <221> NAME/KEY: misc_feature

195 <222> LOCATION: (1)...(817)

196 <223> OTHER INFORMATION: n = A,T,C or G

198 <400> SEQUENCE: 7

| | | | | | | | |
|----------|------------|------------|-------------|------------|-------------|-------------|-----|
| 199 | tttttttttt | tttttttttt | tggtcttaga | gggggtagag | gggtgctat | agggtaaata | 60 |
| 200 | cgggccctat | ttcaaagatt | tttaggggaa | ttaattctag | gacgatgggt | atgaaactgt | 120 |
| 201 | ggtttgctcc | acagatttca | gagcattgac | cgtagtatac | ccccggtcgt | gtagcgggtga | 180 |
| 202 | aagtggtttg | gtttagacgt | cgggaatttg | catctgtttt | taagcctaata | gtggggacag | 240 |
| W--> 203 | ctcatgagtg | caagacgtct | tgtagtgtaa | ttattatacn | aatgggggct | tcaatcggga | 300 |
| 204 | gtactactcg | attgtcaacg | tcaaggagtc | gcaggtcgcc | tggttctagg | aataatgggg | 360 |
| 205 | gaagtatgta | ggaattgaag | attaatccgc | cgtagtcggt | gttctcctag | gttcaatacc | 420 |
| 206 | attggtggcc | aattgatttg | atggtaaagg | gaggyatcgt | tgaactcgtc | tggttatgtaa | 480 |
| W--> 207 | aggatnccct | ngggatggga | aggcnatnaa | ggactangga | tnaatggcgg | gcangatatt | 540 |
| W--> 208 | tcaaacngtc | tctanttcct | gaaacgtctg | aaatgttaat | anaaattaan | tttngttatt | 600 |
| W--> 209 | gaatnttnng | gaaaagggct | tacaggacta | gaaaccaa | angaaaanta | atnntaangg | 660 |
| W--> 210 | cnttatctn | aaaggtnata | accnctecta | tnatcccacc | caatngnatt | ccccacnenn | 720 |
| W--> 211 | acnattggat | nccccanttc | canaaaanggc | cnccccccgg | tgnannccnc | ctttgtgtcc | 780 |
| W--> 212 | cttnantgan | gggtattenc | ccctngcntt | atcance | | | 817 |

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215 <211> LENGTH: 799

216 <212> TYPE: DNA

217 <213> ORGANISM: Homo sapien

219 <220> FEATURE:

220 <221> NAME/KEY: misc_feature

221 <222> LOCATION: (1)...(799)

222 <223> OTHER INFORMATION: n = A,T,C or G

224 <400> SEQUENCE: 8

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|-----|------------|------------|------------|------------|------------|------------|----|
| 225 | catttccggg | tttactttct | aaggaaagcc | yagcggaayc | tgctaacgtg | ggaatcggtg | 60 |
|-----|------------|------------|------------|------------|------------|------------|----|

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226 cataaggaga actttctgct ggcacgcgct agggacaagc gggagagcga ctccgagcgt 120
227 ctgaagcgca cgtcccaaga ggtggacttg gcactgaaac agctgggaca catccgcgag 180
228 tacgaacagc gcctgaaagt gctggagcgg gaggtccagc agtgtagccg cgtcctgggg 240
W--> 229 tgggtggccg angcctganc cgtctgcctt tgcctgcccc angtgggccg ccacccccctg 300
W--> 230 acctgcctgg gtccaaacac tgagccctgc tggcggactt caagganaac ccccacangg 360
W--> 231 ggattttgct cctanantaa ggctcatctg ggctcggccc cccccacctg gttggccttg 420
W--> 232 tctttgagtg gagcccatg tccatctgct ccaactgtcng gaccaccttt ngggagtgtt 480
W--> 233 ctcccttaca cccannatg cccggctcct cccggaaaacc antcccnacc tngaaaggat 540
W--> 234 caagnccctn atccactnnt nctanaaacc gccnccnccg cngtggaacc cnccttntgt 600
W--> 235 tccttttctt tnagggttaa tnnccgcttg gccttncan ngctcctnnc nttttccnnt 660
W--> 236 gttnaaattg ttangcnccc nccnntcccn cnnnnnnan cccgaccenn annttnnnnn 720
W--> 237 nccctggggg nccnncngat tgaccnncnc nccctntant tgctntnggg ncnntgccc 780
W--> 238 ctttccctct nggganncg 799
240 <210> SEQ ID NO: 9
241 <211> LENGTH: 801
242 <212> TYPE: DNA
243 <213> ORGANISM: Homo sapien
245 <220> FEATURE:
246 <221> NAME/KEY: misc_feature
247 <222> LOCATION: (1)...(801)
248 <223> OTHER INFORMATION: n = A,T,C or G
250 <400> SEQUENCE: 9
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W--> 252 taangatgac actcccaaag gtggtcctga cagtggccca gatggacatg gggctcacct 120
253 caaggacaag gccaccaggt gcgggggccc aagccacat gatccttact ctatgagcaa 180
W--> 254 aatccccctgt gggggcttct ccttgaagtc cggcancagg gctcagtctt tggaccang 240
W--> 255 caggtcatgg ggttgtnnc caactggggg ccncaacgca aaanggcna gggcctcngn 300
W--> 256 caccatccc angacggcgc tacactnctg gacctccnc tccaccactt tcattgcctg 360
W--> 257 ttentacccg cgnatntgtc ccanctgttt cngtgcenac tccancttct nggaagtgcg 420
W--> 258 ctacatacgc cgggantcnc nctcccgctt tgcctctatc cagtnccan caacaaattt 480
W--> 259 cncntantg caccnattcc cacttttnc agntttccnc nncngcttc cttntaaaag 540
W--> 260 ggttgancce cggaaaatnc cccaaagggg gggggccngg tacccaactn cccctnata 600
W--> 261 gctgaantcc ccatnaccnn gntcnatgg ancnctcct ttaannacn ttctnaactt 660
W--> 262 gggaaanacc ctgncnctn ccccnntaa tccncccttg cnangnnct ccccnntcc 720
W--> 263 ncccnntng gcntntnann cnaaaaagc cnnnnaaa tctcctnnen cctcanttgc 780
W--> 264 ccancctcg aaatcgccn c 801
266 <210> SEQ ID NO: 10
267 <211> LENGTH: 789
268 <212> TYPE: DNA
269 <213> ORGANISM: Homo sapien
271 <220> FEATURE:
272 <221> NAME/KEY: misc_feature
273 <222> LOCATION: (1)...(789)
274 <223> OTHER INFORMATION: n = A,T,C or G
276 <400> SEQUENCE: 10
W--> 277 cagcttatnt ggccagtgtg gcagctttcc ctgtggctgc cgggtgccaca tgcctgtccc 60
278 acagtgtggc cgtggtgaca gcttcagccg cctcaccgg gttcaccttc tcagccctgc 120
279 agatccctgc ctacacactg gctccctct accaccggga gaagcagtg ttccctgccca 180
280 aataccgagg ggacactgga ggtgctagca gtgaggacag cctgatgacc agcttccctgc 240

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PTI

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

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Input Set : A:\Pto.amc

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L:26 M:270 C: Current Application Number differs, Wrong Format
L:27 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:55 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:81 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

VERIFICATION SUMMARY

DATE: 11/27/2000

PATENT APPLICATION: US/09/593,793A

TIME: 22:54:28

Input Set : A:\Pto.amc

Output Set: N:\CRF3\11272000\I593793A.raw

L:237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
